

CLAIMS:

1. A blow head mechanism for blowing a parison in a  
5 blow mold of a blow station of an I.S. machine and  
cooling the blown parison so that a bottle will be formed  
which can be removed from the blow station comprising  
a blow head assembly,  
support means for supporting said blow head  
10 assembly,  
first displacement means for displacing said support  
means to displace said blow head assembly between a  
remote up position and an advanced down position,  
said blow head assembly including a blow tube  
15 selectively displaceable between an up position and a  
down position,  
second displacement means for displacing said blow  
tube from the up position down to the down position and  
then back up to the up position at least one time during  
20 the time the parison is blown and cooled,  
said blow tube being open at the bottom,  
an air deflector having an annular, concave surface  
terminating at the top with a vertically extending post  
for deflecting air travelling axially down the blow tube  
25 uniformly radially outwardly and  
a supporting frame for supporting said air deflector  
proximate the open bottom of said blow tube.
2. A blow head mechanism for blowing a parison in a  
30 blow mold of a blow station of an I.S. machine and  
cooling the blown parison so that a bottle will be formed  
which can be removed from the blow station according to  
claim 1, wherein said supporting frame supports said  
vertically extending post coaxial with the axis of the  
35 blow tube.
3. A blow head mechanism for blowing a parison in a  
blow mold of a blow station of an I.S. machine and  
cooling the blown parison so that a bottle will be formed

which can be removed from the blow station according to  
claim 2, wherein the open bottom of said blow tube has an  
annular recess and said supporting frame includes an  
annular flange to be press fit into the annular recess  
5 and a plurality of struts connecting the top of the  
vertically extending post to said annular flange.

4. A blow head mechanism for cooling a formed bottle  
comprising

10        a blow head assembly,  
              support means for supporting said blow head  
assembly,  
              first displacement means for displacing said support  
means to displace said blow head assembly between a  
15        remote up position and an advanced down position,  
              said blow head assembly including a blow tube  
selectively displaceable between an up position and a  
down position,  
              second displacement means for displacing said blow  
20        tube from the up position down to the down position and  
then back up to the up position at least one time during  
the time the bottle is cooled,  
              said cooling tube being open at the bottom,  
              an air deflector having an annular, concave surface  
25        terminating at the top with a vertically extending post  
for deflecting air travelling axially down the blow tube  
uniformly radially outwardly and  
              a supporting frame for supporting said air deflector  
proximate the open bottom of said blow tube.